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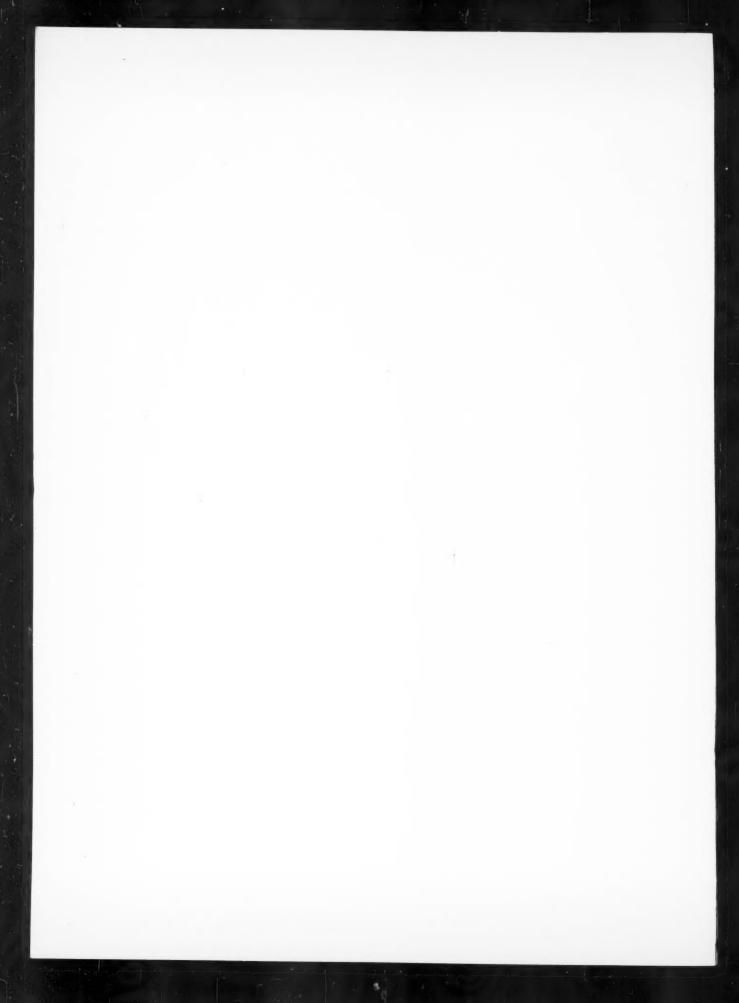
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- 1587 The Effect of Fatty Acid Structure on Utilization by Ehrlich Ascites Tumor Cells. Arthur A. Spector and Daniel Steinberg.
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- 1712 The Cellular Analysis of Liver Carcinogenesis: Ultrastructural Alterations within Hyperplastic Liver Nodules Induced by 2-Fluorenylacetamide. Leonard P. Merkow, Sheldon M. Epstein, Barbara J. Caito, and Barbara Bartus.
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- 1773 Decreased Feedback Inhibition in a 6-(Methylmercapto)purine Ribonucleoside-resistant Tumor. J. Frank Henderson, Ian C. Caldwell, and A. R. P. Paterson.
- 1779 A Comparison of the Rate of Recovery from Inhibition of RNA Synthesis in Mouse Liver and Transplantable Glioma. J. W. Yarbro and B. J. Kennedy.
- 1783 In Vitro Growth Inhibition of S-91 Mouse Melanomas by Tyrosinase Substrate Analogs with and without L-Cysteine. Phillip S. Duke, Ted G. H. Yuen, and Harry B. Demopoulos.
- 1788 The Effect of Gonadectomy on the Development of Hepatomas Induced by Urethan. S. D. Vesselinovitch and N. Mihailovich.
- 1792 Electron Microscopic Study of the Mouse Leukemia Virus (Gross) in Organs of Mouse Embryos from Virus-injected and Normal C3Hf Parents. Dorothy G. Feldman, Yolande Dreyfuss, and Ludwik Gross.
- 1805 Effect of Methyl Methanesulfonate on the Growth of P388

- Lymphoma Cells in Vitro and on Their Rate of Progress through the Cell Cycle. Margaret Fox and B. W. Fox.
- 1813 Basophil Adenomata in the Pituitary Glands of 2-year-old Male Long-Evans Rats. W. E. Griesbach.
- 1819 Nucleolar Behavior in Regenerating Liver of Normal and Whole-Body-irradiated Rats. St. Mironescu and C. Dragomir,
- 1831 Sequential Cytogenetic Changes in the Evolution of Transplanted Thyroid Tumors to Metastatic Carcinoma in the Fischer Rat. A. Al-Saadi and W. H. Beierwaltes.
- 1843 Treatment of Malignant Melanoma with Hydroxyurea.

  Peter A. Cassileth and George A. Hyman.
- 1846 Regression of an Adrenal Cortical Carcinoma by Estradiol Treatment. Mohamed N. El-Bolkainy, G. Barry Pierce, Jr., and A. James French.
- 1855 Histologic Features of Virus-rich and Virus-poor Shope Papillomas of Cottontail Rabbits. A. L. Rashad and C. A. Evans
- 1861 Comparison of Direct and Short-term Tissue Culture Technics in Determining Solid Tumor Karyotypes. Stuart Koller and Herbert A. Lubs.
- 1867 5-Allyl-2'-deoxyuridine Inhibition of Nucleoside Phosphorylase in HeLa Cells Containing Mycoplasma. James F.

- Holland, Rita Korn, Judith O'Malley, Harry J. Minnemeyer, and Howard Tieckelmann.
- 1874 Localization of Tumor Antigens in Adenovirus-12-induced Tumor Cells and in Adenovirus-12-infected Human and Hamster Cells by Ferritin-labeled Antibodies. V. I. Kalnins, H. F. Stich, C. Gregory, and D. S. Yohn.
- 1887 Tumor Production in Vivo and Cell Transformation in Vitro by Two SV40 Strains. Norbett P. Rapoza, Leonard P. Merkow, and Malcolm Slifkin.
- 1895 Isozymes of Lactate Dehydrogenase during Beryllium Carcinogenesis in the Rat. Andrew L. Reeves.
- 1900 Hepatocarcinogenicity of Griseofulvin following Parenteral Administration to Infant Mice. Samuel S. Epstein, Joan Andrea, Sewa Joshi, and Nathan Mantel.
- 1907 Deoxycytidylate Deaminase Activity of Simian Virus 40infected Cell Cultures. Saul Kit, R. A. de Torres, and Del R. Dubbs.
- 1915 Book Reviews.
- 1916 Books Received.
- 1917 Special Announcement: Annual Meeting of the American Association for Cancer Research, Inc.
- 1918 Announcements from the Editor.

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- 1033 Screening of Selected in Vitro Enzyme Systems. I. Standard Test Composition of the Cancer Chemotherapy National
- Service Center. E. I. Ciaccio, G. E. Boxer, T. M. Devlin, and R. T. Ford. (Entry Nos. 85362-86587).
- 1070 Screening of Selected in Vitro Enzyme Systems. II. Composition Specifically Selected for the Dehydrogenase Inhibition Screen. E. I. Ciacco, G. E. Boxer, T. M. Devlin, and R. T. Ford. (Entry Nos. 86588–86840).
- 1105 Index of Materials.

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- Nobel Prize Lectures:
- 1919 The Challenge to Man of the Neoplastic Cell. Peyton Rous.
   1925 Endocrine-Induced Regression of Cancers. Charles
- 1931 Stimulatory Effect of Polycyclic Hydrocarbons and Aromatic Azo Derivatives on the Metabolism of 7,12-Dimethylbenz(α)anthracene. W. Levin and A. H. Conney.
- 1939 An Electron Microscopic Study of Pulmonary Tumor Emboli from Transplantable Morris Hepatoma 5123. Ruth M. Ludatscher, Sarah A. Luse, and Valentina Suntzeff.
- 1953 Hybridization of a Malignant Melanoma Cell Line with L Cells in Vitro. Selma Silagi.
- 1961 Erythrocyte Filtration by the Popliteal Lymph Node in the Dog. Shimpei Tada, David L. Benninghoff, and Peter G. Herman
- 1967 Effect of Heparin on Erythrocyte Filtration by the Popliteal Lymph Node in the Dog. David L. Benninghoff, Shimpei Tada, and Peter G. Herman.
- 1969 A Search for Urinary 4',10-Dimethyl-1,2-benzanthracene and Other Hydrocarbons. Noël J. de Souza and William R. Noe.
- 1973 Suppression of the Immune Response to Antigenic Tumors in Isogenic Mice by Whole-Body Irradiation. Werner Rosenau and Henry D. Moon.
- 1982 Specific Antigens of Rat Embryonic Serum. M. Stanislawski-Birenewajg.
- 1990 Association of Embryonic Antigens with Experimentally Induced Hepatic Lesions in the Rat. M. Stanislawski-Birencwajg, J. Uriel, and P. Grabar.
- 1998 The Production of Carcinoma of the Urinary Bladder in

- Rats by Feeding N-[4-(5-Nitro-2-furyl)-2-thiazolyl] formamide. E. Ertürk, J. M. Price, J. Emory Morris, S. Cohen, Ronnie Sue Leith, Anne M. Von Esch, and A. J. Crovetti.
- 2003 The Influence of Adrenal Injury Produced in Rats by 7,12-Dimethylbenz(α)anthracene on the Regulation of Liver Tyrosine Aminotransferase and Tryptophan Oxygenase. Julia Hudson, Olga Greengard, and Hermann Lisco.
- 2011 Influence of 3-Methylcholanthrene on Liver Carcinogenesis in Rats Ingesting dl-Ethionine, 3'-Methyl-4-dimethylamino-azobenzene, and N-2-Fluroenylacetamide. Masao Marugami Nobuyuki Ito, Yoichi Konishi, Yoshio Hiasa, and Emmunuel Farber.
- 2020 The Coating Reaction of the Herpes-type Virus Isolated from Malignant Tissues with an Antibody Present in Sera. Sami A. Mayyasi, George Schidlovsky, Laurette M. Bulfone, and Frank T. Buscheck.
- 2025 Hepatic Synthesis and Secretory Release of Plasma- $\alpha_2$  (Acute Phase)-Globulin Appearing in Malignancy. Edward J. Sarcione.
- 2034 The Effect of Growth Hormone on the Development of Plasma Cell Tumor and Lymphosarcoma. Kintomo Takakura, Hisashi Yamada, and Vincent P. Hollander.
- 2042 Induced Oncogenesis in Developing Frog Kidney Cells. Kenyon S. Tweedell.
- 2053 Some Properties of β-Glucuronidase Activity in Normal Rat Liver and in Several Transplantable Rat Hepatomas. Ronald L. Wagner and Jay S. Roth.
- 2060 The Concentration in Tumor and Other Tissues of Parenterally Administered Tritium- and <sup>14</sup>C-labeled Tetra-

- phenylporphinesulfonate. James Winkelman, Gary Slater, and Judith Grossman.
- 2065 Establishment of Transplantable Hepatomas Induced by 3'-Methyl-4-dimethylaminoazobenzene with Special Reference to the Histologic Features of the Transplants of Early Passages. Jeffrey P. Chang, Charles W. Gibley, Jr., and Kihyoe Ichinoe.
- 2072 Acceptance of Walker 256 Carcinosarcoma by C57BL/6 Mice Treated with Rabbit Anti-Mouse-Thymus Serum. Theodore P. Kubista, Roy G. Shorter, and George A. Hallenbeck.
- 2077 Relation between 2-Deoxyglucose Phosphorylation and Adenine Nucleotide Content in Lettrê Ascites Cells. H.
  Meisner
- 2083 Light and Electron Microscope Studies of Organs and Tissues of the New Zealand Black (NZB/BL) Stain Mice with Lymphoid Leukemia and Autoimmune Disease. Tokichi Yumoto and Leon Dmochowski.
- 2098 Light and Electron Microscope Studies of Organs and Tissues of SJL/J Strain Mice with Reticulum Cell Neoplasms Resembling Hodgkin's Disease. Tokichi Yumoto and Leon Dmochowski.
- 2113 Effect of Heterologous Antilymphoid-Cell Serum on Tumor Isografts and Viral Leukemogenesis. Sven Bremberg, Eva Klein, and Jan Stjernswärd.
- 2119 Corticosteroid Production Rates in Strain 2 Guinea Pigs following LeC/NB Leukemia Transplantation. Shlomo Burstein and Eli M. Nadel.
- 2123 Studies on the Relationship of Hemadsorption by Normal Murine Spleen and Murine Tumors. Loren J. Humphrey.
- 2126 Studies on Passage of the Hemadsorbing Factor of Murine Tumors to Normal Cell Gultures. Loren J. Humphrey.
- 2129 Clinical Evaluation of 5-Bromo-5-fluoro-6-methoxy-dihy-

- dro-2'-deoxyuridine. J. J. Van Dyk, B. D. Clarkson, R. Duschinsky, O. Keller, E. La Sala, and I. H. Krakoff.
- 2137 Ultrastructure of Spontaneous Hyperplastic Nodules in Mouse Liver. Edward Essner.
- 2153 Conversion of Glucose to Lipids by Normal and Leukemic Leukocytes. Constantinos J. Miras, Nikolaos J. Legakis, and Gabriel M. Levis.
- 2159 Invasion of Skeletal and Smooth Muscle by L1210 Leukemia.

  David Brandes, Elsa Anton, and Brian Schofield.
- 2179 Cytochemical Studies on the Mouse Mammary Tumor Virus, Gilbert H. Smith.
- 2197 Influence of a Papilloma Vaccine on Chromic Bovine Enzootic Hematuria. A. M. Pamukcu, C. Olson, and S. K. Goksoy.
- 2201 The Antineoplastic and Biochemical Effects of Some 5-Fluoropyrimidines. Alan C. Sartorelli and William A. Creasey.
- 2207 Studies on the Growth and Regression of a Transplantable Moloney Sarcoma. A Fefer, J. L. McCoy, and J. P. Glynn.
- 2212 The Effect on Prolonged Ischemia upon Regional Energy Reserves in the Experimental Glioblastoma. Wolff M. Kirsch, Demoy Schulz, and J. Wayne Leitner.
- 2221 Comparative Studies of the Nucleoli of Morris Hepatomas, Embryonic Liver, and Aflatoxin B<sub>1</sub>-treated Liver of Rats. Tadao Unuma, Harold P. Morris, and Harris Busch.
- 2234 Effect of Methyl Methanesulfonate on Macromolecular Biosynthesis in P388F Cells. Brian W. Fox and Margaret Fox.
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- 1284 Hormonal Treatment of Mammary Tumors in Rats Induced by 3-Methylcholanthrene (NSC-21970) and 7,12-Dimethylbenz(a)anthracene (NSC-408823). M. B. Shimkin, L. Gropper, D. Thatcher, and M. Gruenstein.
- 1289 Chemotherapeutic Response of 3-Methylcholanthreneinduced Mammary Carcinoma in Wistar Rats to 51 Agents. L. Gropper, M. Gruenstein, and M. B. Shimkin. (Entry Nos. 88438-88488)
- 1298 Index of Materials.
- 1308 Announcement—Transfer of Cancer Chemotherapy Screening Data Supplements (Part 2),

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- 2249 Friend Leukemia Virus Spleen Focus Assay: Relationship of Spleen Foci to Viremia, Splenomegaly, and Survival Time M. A. Chirigos, E. D. Schwalb, and D. Scott.
- 2255 Lethal Effect of Phleomycin in Different Stages of the Division Cycle of HeLa Cells. Bozidar Djordjevic and Jae Ho Kim.
- 2261 Relationship of the Nicotinamide Adenine Dinucleotide Glycohydrolase Activity to Nicotinamide Adenine Dinucleotide Content and Rate of Proliferation of Ehrlich Ascites Tumor Cells. Saul Green and Areta Dobrjansky.
- 2267 Influence of Infections Virus on the Induction of Transplantation Resistance in the Friend Tumor System. J. L. McCoy, A. 'Fefer, and J. P. Glynn.
- 2272 Immunologic Interactions between Isologous or F<sub>1</sub> Hybrid Hosts and Spontaneous Mammary Tumors in CBA/Bln Mice. Martin Müller.
- 2280 The Effect of Phagocytosis and X-irradiation on Human

- Leukocyte Metabolism. Ratnam J. Selvaraj, Ronald J. McRipley, and Anthony J. Sbarra.
- 2287 The Metabolic Activities of Leukocytes from Lymphoproliferative and Myeloproliferative Disorders during Phagocytosis. R. J. Selvaraj, R. J. McRipley, and A. J. Sbarra.
- 2295 IgG Associated with Microsomes from Autochthonous Hepatomas and Normal Liver of Rats. Isaac Witz, Yasuo Yagi, and David Pressman.
- 2300 The Occurrence of Immunologically Common Antigenic Components in C-reactive Protein and Human Hepatic and Erythrocyte Catalases. Y. Hokama, H. D. Croxatto, K. Yamada, and E. T. Nishimura.
- 2309 Biliary Excretion of the O-Glucuronide of N-Hydroxy-2acetylaminofluorene by the Rat and Rabbit. Charles C. Irving, Ralph Wiseman, Jr., and Jim T. Hill.
- 2318 Neoplasms in Mice Neonatally Inoculated with Rat Thy-

- mus Antiserum and Fed Benzo(a)pyrene. R. H. Rigdon, Jack Neal, D. Anigstein, and L. Anigstein.
- 2324 The Use of Nicotinamide to Modify the Toxicity of Streptozotocin Diabetes without Loss of Antitumor Activity. Philip S. Schein, David A. Cooney, and M. Lee Vernon.
- 2333 The Prenatal Exposure of Mice to Urethan and the Consequent Development of Tumors in Various Tissues. S. D. Vesselinovitch, N. Mihailovich, and G. Pietra.
- 2338 The Specificity of Inhibition of Tumor Cell Viability by DNA. J. Leslie Glick.
- 2342 Specific Metabolic Changes in DNA-treated L1210 Leukemia Cells. J. Leslie Glick and Carl Sahler.
- 2350 Quantitative Studies Concerning the Uptake of Mouse Thymus DNA by L1210 Leukemia Cells. J. Leslie Glick.
- 2357 Location and Characteristics of the Phenylalanine Transport Mechanism in Normal and Polyoma-transformed Hamster Cells. J. Donald Hare.
- 2364 Recovery from Prolonged Unbalanced Growth Induced in HeLa Cells by High Concentrations of Thymidine. W. Clark Lambert and George P. Studzinski.
- 2370 Dose-Response Characteristics of Aflatoxin B<sub>1</sub> Carcinogenesis in the Rat. G. N. Wogan and P. M. Newberne.
- 2377 Marker Chromosomes in IRC 741 Rat Leukemia. Albina A. Yakaitis and Joseph R. Rubini.
- 2381 The Cell Cycle of Leukemia L1210 Cells in Vivo. Ronald A. Yankee, Vincent T. De Vita, and Seymour Perry.
- 2386 Complement Reactivity of Cancer Patients: Measurements by Immune Hemolysis and Immune Adherence. Doris McKenzie, Jacob Colsky, and Daniel L. Hetrick.
- 2395 Oxidation of o-Aminophenols by Mouse and Human Melanoma Dihydroxyphenylalanine Oxidase and Dihydroxyphenylalanine. Lee Roy Morgan, Rattan Singh, Vernon Sylvest, and Doris Weimorts.
- 2408 Fructokinase, Triokinase, and Aldolases in Liver Tumors of the Rat. Richard C. Adelman, Harold P. Morris, and Sidney Weinhouse.
- 2414 Symposium: Conference on Acute Leukemia and Burkitt's Tumor.
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- 2420 Epidemiology of Acute Leukemia. Brian MacMahon (chairman), Robert W. Miller, Dennis H. Wright, Clark W. Heath, Jr.
- 2442 Evidence for Viruses in Human Leukemia and Burkitt's
  Tumor. W. Ray Bryan (Chairman), Gertrude Henle,
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  - Immunology of Acute Leukemia and Burkitt's Tumor.

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- Recent Advances in the Treatment of Acute Leukemia and Burkitt's Tumor. Sidney Farber (Chairman), C. Gordon Zubrod, Isaac Djerassi, Jean Bernard, Edward Henderson, Emil J. Freireich, Gerald P. Bodey, Jules E. Harris, Jacqueline S. Hart, Peter Clifford, George Klein, Surjeet Singh, Jan Stjernwärd, Joseph H. Burchenal, Herbert F. Oetlgen, Lloyd J. Old, Edward A. Boyse, Harold A. Campbell, Frederick S. Philips, Bayard D. Clarkson, Lisa Tallal, Robert D. Leeper, Morton K. Schwartz, Jae Ho Kim, Henry Rappaport, Dennis H. Wright, Ronald F. Dorfman, James F. Holland.
- 2636 Experimental Basis for the Chemical Eradication of Leukemia. Emil Frei III (Chairman), Howard E. Skipper, W. R. Bruce, D. E. Bergsagel, David P. Rall.
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# Cover Illustrations for 1967

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- February: Charles B. Huggins and a graph of the effect of diethylstilbestrol on prostatic cancer.
- March: Antoine-Marcellin-Bernard Lacassagne and a photomicrograph of induced mammary cancer.
- April: Sewall Wright and a figure on polydactyly in guinea pigs.

  May: (Francis) Peyton Rous and illustrations of a fowl with a
  tumor and its successful transplant.
- June: Richard Edwin Shope and illustration of infectious papillomatosis of rabbits.
- July: Louis Frederick Fieser and a methylcholanthrene model. August: Members of the first National Advisory Cancer Council. September: William Dubreuilh and George M. Findlay.
- October: Heinrich-Wilhelm Waldeyer Hartz, Carl Thiersch, and Robert Remak.
- November: The Imperial Cancer Research Fund.
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